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Application Serial Number: 10/083,720
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Date Processed by STIC: 3/27/02

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Revised 01/29/2002



OIPE

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/083,720

DATE: 03/27/2002
TIME: 14:15:08

Input Set : A:\DX0644KBK 28FEB2002.ST25.txt
Output Set: N:\CRF3\03272002\J083720.raw

3 <110> APPLICANT: de Waal Malefyt, Rene
 4 Fickenscher, Helmut
 5 Fleckenstein, Bernhard
 6 Knappe, Andrea
 8 <120> TITLE OF INVENTION: MAMMALIAN CYTOKINE; RELATED REAGENTS
 10 <130> FILE REFERENCE: DX0644KBK
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/083,720
 C--> 12 <141> CURRENT FILING DATE: 2002-02-28
 12 <150> PRIOR APPLICATION NUMBER: 09/363,993
 13 <151> PRIOR FILING DATE: 1999-07-29
 15 <160> NUMBER OF SEQ ID NOS: 21
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1076
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (36)..(548)
 27 <223> OTHER INFORMATION:
 30 <400> SEQUENCE: 1
 31 ctgtgagtga cacacgctga gtggggtaaa gggaa atg ctg gtg aat ttc att 53
 32 Met Leu Val Asn Phe Ile
 33 1 5
 35 ttg agg tgt ggg ttg ctg tta gtc act ctg tct ctt gcc att gcc aag 101
 36 Leu Arg Cys Gly Leu Leu Leu Val Thr Leu Ser Leu Ala Ile Ala Lys
 37 10 15 20
 39 cac aag caa tct tcc acc aaa agt tgt tac cca agg gga aca ttg 149
 40 His Lys Gln Ser Ser Phe Thr Lys Ser Cys Tyr Pro Arg Gly Thr Leu
 41 25 30 35
 43 tcc caa gct gtt gac gct ctc tat atc aaa gca gca tgg ctc aaa gca 197
 44 Ser Gln Ala Val Asp Ala Leu Tyr Ile Lys Ala Ala Trp Leu Lys Ala
 45 40 45 50
 47 acg att cca gaa gac cgc ata aaa aat ata cga tta tta aaa aag aaa 245
 48 Thr Ile Pro Glu Asp Arg Ile Ivs Asn Ile Arg Leu Ivs Ivs Iys
 55 tcc ttc ttc atq gaa qac qtq ttt gat caa ctc caa ttq caa qqr tyc 441
 56 Ser Phe Phe Met Glu Asp Val Phe Gly Gin Leu Gin Leu Gln Gly Cys
 57 90 95 100

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Input Set : A:\DX0644KBK 28FEB2002.ST25.txt
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60	Lys	Lys	Ile	Arg	Phe	Val	Glu	Asp	Phe	His	Ser	Leu	Arg	Gln	Lys	Leu	
61			105				110						115				
63	agc	cac	tgt	att	tcc	tgt	gct	tca	tca	gct	aga	gag	atg	aaa	tcc	att	437
64	Ser	His	Cys	Ile	Ser	Cys	Ala	Ser	Ser	Ala	Arg	Glu	Met	Lys	Ser	Ile	
65			120				125					130					
67	acc	agg	atg	aaa	aga	ata	ttt	tat	agg	att	gga	aac	aaa	gga	atc	tac	485
68	Thr	Arg	Met	Lys	Arg	Ile	Phe	Tyr	Arg	Ile	Gly	Asn	Lys	Gly	Ile	Tyr	
69	135						140				145				150		
71	aaa	gcc	atc	agt	gaa	ctg	gat	att	ctt	ctt	tcc	tgg	att	aaa	aaa	tta	533
72	Lys	Ala	Ile	Ser	Glu	Leu	Asp	Ile	Leu	Leu	Ser	Trp	Ile	Lys	Lys	Leu	
73							155				160			165			
75	ttg	gaa	agc	agt	cag	taaaccaaag	ccaagtacat	tgat	tttaca	gtt	at	tttga					588
76	Leu	Glu	Ser	Ser	Gin												
77			170														
79	aatacaataa	gaactgctag	aaatatgttt	ataacagtct	atttctttta	aaaacttttt											648
81	aacataatac	tgacggcatg	ttaggtgatt	cagaatagac	aagaaggatt	tagtaaatta											708
83	acgttttgg	tataagttgt	cactaatttg	cacatttct	gtgtttcaa	ataatgtttc											768
85	cattctgaac	atgttttgc	attcacaagt	acattgtgtc	aacttaattt	aaagtatgt											828
87	acctgaatta	actcggtaa	tatttgtgt	tggagtgg	tgtgggggt	ggagggggaa											888
89	tgacagattt	ctggaatgca	atgtaatgtt	actgagactt	aaatagatgt	tatgtatatg											948
91	attgtctgtt	taagtgttt	aaaattgtt	attatccc	gtgtgaactt	agtacttaac											1008
93	acat	tttgat	tttaattaaa	taaattgggt	ttccttctca	aaaaaaaaaaaa	aaaaaaaaaaaa										1068
95	aaaaaaaa																1076
98	<210>	SEQ ID NO:	2														
99	<211>	LENGTH:	171														
100	<212>	TYPE:	PRT														
101	<213>	ORGANISM:	Homo sapiens														
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106	1				5						10				15		
109	Ser	Leu	Ala	Ile	Ala	Lys	His	Lys	Gln	Ser	Ser	Phe	Thr	Lys	Ser	Cys	
110						20				25			30				
113	Tyr	Pro	Arg	Gly	Thr	Leu	Ser	Gln	Ala	Val	Asp	Ala	Leu	Tyr	Ile	Lys	
114						35			40			45					
117	Ala	Ala	Trp	Leu	Lys	Ala	Thr	Ile	Pro	Glu	Asp	Arg	Ile	Lys	Asn	Ile	
118						50			55			60					
121	Arg	Leu	Leu	Lys	Lys	Thr	Lys	Lys	Gln	Phe	Met	Lys	Asn	Cys	Gln		
122						65			70			75			80		
125	Phe	Gln	Glu	Gln	Leu	Leu	Ser	Phe	Phe	Met	Glu	Asp	Val	Phe	Gly	Gln	
126							85			90			95				
129	Leu	Gln	Leu	Gln	Gly	Cys	Lys	Lys	Ile	Arg	Phe	Val	Glu	Asp	Phe	His	
130							100			105			110				
133	Ser	Leu	Arg	Gln	Lys	Leu	Ser	His	Cys	Ile	Ser	Cys	Ala	Ser	Ser	Ala	
134							115			120			125				
137	Arg	Glu	Met	Lys	Ser	Ile	Thr	Arg	Met	Lys	Arg	Ile	Phe	Tyr	Arg	Ile	

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146	165	170
149 <210> SEQ ID NO: 3		
150 <211> LENGTH: 179		
151 <212> TYPE: PRT		
152 <213> ORGANISM: Equine Herpes Virus		
154 <400> SEQUENCE: 3		
156 Met Phe Arg Ala Ser Leu Leu Cys Cys Leu Val Leu Ala Gly Val		
157 1 5 10 15		
160 Trp Ala Asp Asn Lys Tyr Asp Ser Glu Ser Gly Asp Asp Cys Pro Thr		
161 20 25 30		
164 Leu Pro Thr Ser Leu Pro His Met Leu His Glu Leu Arg Ala Ala Phe		
165 35 40 45		
168 Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Met		
169 50 55 60		
172 Leu Leu Asp Gly Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys		
173 65 70 75 80		
176 Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro		
177 85 90 95		
180 Gln Ala Glu Asn His Ser Thr Asp Gln Glu Lys Asp Lys Val Asn Ser		
181 100 105 110		
184 Leu Gly Glu Lys Leu Lys Thr Leu Arg Val Arg Leu Arg Arg Cys His		
185 115 120 125		
188 Arg Phe Leu Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys		
189 130 135 140		
192 Ser Ala Phe Ser Lys Leu Gln Glu Lys Gly Val Tyr Lys Ala Met Ser		
193 145 150 155 160		
196 Glu Phe Asp Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Thr Lys		
197 165 170 175		
200 Met Lys Asn		
204 <210> SEQ ID NO: 4		
205 <211> LENGTH: 170		
206 <212> TYPE: PRT		
207 <213> ORGANISM: Epstein Barr Virus		
209 <400> SEQUENCE: 4		
211 Met Glu Arg Arg Leu Val Val Thr Leu Gln Cys Leu Val Leu Leu Tyr		
212 1 5 10 15		
215 Leu Ala Pro Glu Cys Gly Gly Thr Asp Gln Cys Asp Asn Phe Pro Gln		
216 20 25 30		
219 Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe		
220 35 40 45		
223 Gln Thr Lys Asp Glu Val Asp Asn Leu Leu Lys Glu Ser Leu Leu		
224 50 55 60		
227 Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile		
228 65 70 75 80		

** Accession number: A:\DX0644KBK 28FEB2002.ST25.txt; file name: J083720.htm; Asp. type

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Input Set : A:\DX0644KBK 28FEB2002.ST25.txt
Output Set: N:\CRF3\03272002\J083720.raw

240 115 120 125
243 Ser Lys Ala Val Glu Gln Ile Lys Asn Ala Phe Asn Lys Leu Gln Glu
244 130 135 140
247 Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe Ile Asn Tyr
248 145 150 155 160
251 Ile Glu Ala Tyr Met Thr Ile Lys Ala Arg
252 165 170
255 <210> SEQ ID NO: 5
256 <211> LENGTH: 178
257 <212> TYPE: PRT
258 <213> ORGANISM: Mus musculus
260 <400> SEQUENCE: 5
262 Met Pro Gly Ser Ala Leu Leu Cys Cys Leu Leu Leu Leu Thr Gly Met
263 1 5 10 15
266 Arg Ile Ser Arg Gly Gln Tyr Ser Arg Glu Asp Asn Asn Cys Thr His
267 20 25 30
270 Phe Pro Val Gly Gln Ser His Met Leu Leu Glu Leu Arg Thr Ala Phe
271 35 40 45
274 Ser Gln Val Lys Thr Phe Phe Gln Thr Lys Asp Gln Leu Asp Asn Ile
275 50 55 60
278 Leu Leu Thr Asp Ser Leu Met Gln Asp Phe Lys Gly Tyr Leu Gly Cys
279 65 70 75 80
282 Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Val Glu Val Met Pro
283 85 90 95
286 Gln Ala Glu Lys His Gly Pro Glu Ile Lys Glu His Leu Asn Ser Leu
287 100 105 110
290 Gly Glu Lys Leu Lys Thr Leu Arg Met Arg Leu Arg Arg Cys His Arg
291 115 120 125
294 Phe Leu Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Ser
295 130 135 140
298 Asp Phe Asn Lys Leu Gln Asp Gln Gly Val Tyr Lys Ala Met Asn Glu
299 145 150 155 160
302 Phe Asp Ile Phe Ile Asn Cys Ile Glu Ala Tyr Met Met Ile Lys Met
303 165 170 175
306 Lys Ser
310 <210> SEQ ID NO: 6
311 <211> LENGTH: 178
312 <212> TYPE: PRT
313 <213> ORGANISM: Homo sapiens
315 <400> SEQUENCE: 6
317 Met His Ser Ser Ala Leu Leu Cys Cys Leu Val Leu Thr Gly Val
318 1 5 10 15
321 Arg Ala Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His
322 20 25 30

RAW SEQUENCE LISTING DATE: 03/27/2002
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Input Set : A:\DX0644KBK_28FEB2002.ST25.txt
Output Set: N:\CRF3\03272002\J083720.raw

334	65	70	75	80
337	Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro			
338	85	90	95	
341	Gln Ala Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu			
342	100	105	110	
345	Gly Glu Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg			
346	115	120	125	
349	Phe Leu Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn			
350	130	135	140	
353	Ala Phe Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu			
354	145	150	155	160
357	Phe Asp Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile			
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361	Arg Asn			
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366	<211> LENGTH: 20			
367	<212> TYPE: DNA			
368	<213> ORGANISM: <u>Synthetic</u>			
370	<400> SEQUENCE: 7			
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374	<210> SEQ ID NO: 8			
375	<211> LENGTH: 26			
376	<212> TYPE: DNA			
377	<213> ORGANISM: <u>Synthetic</u>			
379	<400> SEQUENCE: 8			
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384	<211> LENGTH: 28			
385	<212> TYPE: DNA			
386	<213> ORGANISM: <u>Synthetic</u>			
388	<400> SEQUENCE: 9			
389	tggcaaaact gcacccatcac acagagct			28
392	<210> SEQ ID NO: 10			
393	<211> LENGTH: 21			
394	<212> TYPE: DNA			
395	<213> ORGANISM: <u>Synthetic</u>			
397	<400> SEQUENCE: 10			
398	gagatctccg agatgccttc a			21
401	<210> SEQ ID NO: 11			
402	<211> LENGTH: 26			
403	<212> TYPE: DNA			
404	<213> ORGANISM: <u>Synthetic</u>			
406	<400> SEQUENCE: 11			
407	caaggactcc tttaacaaca aqttat			26

415-410 SEQUENCE 12

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/083,720

DATE: 03/27/2002

TIME: 14:15:09

Input Set : A:\DX0644KBK 28FEB2002.ST25.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** **SERIAL NUMBER:** 101063,720

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
 Response Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
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